Please amend the claims as follows. This listing of claims will replace all prior versions, and listings of claims in the application:

## **Listing of Claims:**

Claim 1 (Currently Amended): In a chemical mechanical planarization (CMP) system, a A processing surface temperature controller, comprising:

an array of thermal elements, each of the thermal elements of the array being independently controlled, the array of thermal elements being positioned to contact a back surface of the processing surface, and

a controller connected to each of the thermal elements of the array, the controller being configured to manage a surface temperature of the processing surface,

wherein the processing surface temperature controller is defined in a chemical mechanical planarization (CMP) system.

Claim 2. (Cancelled)

Claim 3. (Currently Amended): In a chemical mechanical planarization (CMP) system, the The processing surface temperature controller of claim 1, wherein the processing surface includes a plurality of processing zones, and wherein each of the thermal elements of the array of thermal elements corresponds to a processing zone, the thermal elements of the array being independently controlled to manipulate a the surface temperature of the processing zone corresponding to the thermal element.

Claim 4. (Currently Amended): In a chemical mechanical planarization (CMP) system, the The processing surface temperature controller of claim 3, wherein each of the

thermal elements of the array of thermal elements is configured to apply thermal energy to

the processing zone corresponding to the thermal element to raise the surface temperature of

the processing zone corresponding to the thermal element.

Claim 5. (Currently Amended): In a chemical mechanical planarization (CMP)

system, the The processing surface temperature controller of claim 3, wherein each of the

thermal elements of the array of thermal elements is configured to apply thermal energy to

the processing zone corresponding to the thermal element to lower the surface temperature of

the processing zone corresponding the thermal element.

Claim 6 (Currently Amended): In a chemical mechanical planarization (CMP)

system, a A method for controlling the a temperature of a processing surface, comprising:

applying thermal energy to a linear array of locations on a backside of the processing

surface defined in a chemical mechanical planarization (CMP) system, the linear array of

locations spanning from a first location to a second location of the processing surface; and

controlling a degree of the applied thermal energy at each of the linear array of

locations.

Claim 7 (Currently Amended): In a chemical mechanical planarization (CMP)

system, the The method for controlling the temperature of the processing surface as recited in

claim 6, wherein each location of the linear array of locations includes a thermal unit, the

thermal unit being configured to apply thermal energy to the backside of the processing

surface.

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Claim 8 (Currently Amended): In a

In a chemical mechanical planarization (CMP)

system, the The method for controlling the temperature of the processing surface as recited in

claim 7, wherein each thermal unit is connected to a processing surface temperature

controller, the processing surface temperature controller being configured to control the

application of thermal energy by each thermal unit in order to maintain a desired processing

surface temperature.

Claim 9 (Currently Amended): In a chemical mechanical planarization (CMP)

system, the The method for controlling the temperature of the processing surface as recited in

claim 8, wherein each location of the linear array of locations corresponds to a processing

zone of the processing surface, and wherein each a thermal unit is configured to apply

thermal energy to the backside of the processing surface to control a processing temperature

of the processing zone.

Claim 10 (Currently Amended): In a chemical mechanical planarization (CMP)

system, the The method for controlling the temperature of the processing surface as recited in

claim 9, wherein each thermal unit is configured to apply thermal energy to the backside of

the processing surface to increase the temperature of the processing zone.

Claim 11 (Currently Amended): In a chemical mechanical planarization (CMP)

system, the The method for controlling the temperature of the processing surface as recited in

claim 9, wherein each thermal unit is configured to apply thermal energy to the backside of

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the linear belt processing surface to decrease the temperature of the processing zone.

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Claim 12 (Original): In a chemical mechanical planarization (CMP) system, the

CMP system including an outer preparation surface and an inner surface, a preparation

surface conditioner, comprising:

an array of conditioning pucks for conditioning the outer preparation surface, each of

the conditioning pucks of the array being independently controlled.

Claim 13 (Original): In a chemical mechanical planarization (CMP) system, the

CMP system including an outer preparation surface and an inner surface, the preparation

surface conditioner as recited in claim 12, further comprising:

an array of spray nozzles for rinsing the outer preparation surface and the conditioning

pucks, each of the spray nozzles of the array being independently controlled.

Claim 14 (Original): In a chemical mechanical planarization (CMP) system, the

CMP system including an outer preparation surface and an inner surface, the preparation

surface conditioner as recited in claim 13, further comprising:

an array of thistle brushes configured to sweep the outer preparation surface.

Claim 15 (Original): In a chemical mechanical planarization (CMP) system, the

CMP system including an outer preparation surface and an inner surface, the preparation

surface conditioner as recited in claim 12, wherein each of the conditioning pucks of the array

is independently controlled and is configurable to apply a pressure against the outer

preparation surface from about 0.1 PSI to about 2.0 PSI.

Claim 16 (Original): In a chemical mechanical planarization (CMP) system, the

CMP system having an outer processing surface and an inner surface, a method for

conditioning the outer processing surface, comprising:

distributing a plurality of independent conditioning elements along a linear path; and

applying each of the plurality of independent conditioning elements to the outer

processing surface.

Claim 17 (Original): In a chemical mechanical planarization (CMP) system, the

CMP system having an outer processing surface and an inner surface, the method for

conditioning the outer processing surface as recited in claim 16, further comprising:

distributing a plurality of spray nozzles along a linear path; and

rinsing the outer preparation surface using each of the plurality of spray nozzles along

the linear path.

Claim 18 (Original): In a chemical mechanical planarization (CMP) system, the

CMP system having an outer processing surface and an inner surface, the method for

conditioning the outer processing surface as recited in claim 17, further comprising:

distributing a plurality of thistle brushes along a linear path; and

cleaning the outer preparation surface using each of the plurality of thistle brushes

along the linear path.

Claim 19 (Original): In a chemical mechanical planarization (CMP) system, the

CMP system having an outer processing surface and an inner surface, the method for

conditioning the outer processing surface as recited in claim 16, wherein the independent

conditioning elements are configurable to apply a pressure against the outer preparation

surface from about 0.1 PSI to about 2.0 PSI.

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Claim 20 (Original): In a chemical mechanical planarization (CMP) system, the CMP system having an outer processing surface and an inner surface, the method for conditioning the outer processing surface as recited in claim 16, wherein the CMP system is a linear belt CMP processing system.